

ERD

08

① Intermediary Car rental Company:

09

→ Company :

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① office → office-ID, Address,

12

Contact-No

01

② owner → National-ID, Full name,

02

Bank-account number.

03

③ Car → Car-ID, Brand/model name,  
model - Year, license-copy,  
Rent-amount, Car-status,  
owner-national-ID

04

05

06

07

④ Tenant → National-ID, Driving license-copy,  
mobile-number.

08

⑤ Rental-Transaction → Transaction-ID, Start-date,  
Duration, Payment-method,

Tenant-national-ID, Car-ID



## \* Relationship analysis:

[1] office  $\leftrightarrow$  owner (1:m)

- one office can have many owners.
  - one owner applies to only one office.
- Relationship: "Register with"

[2] owner  $\leftrightarrow$  Car (1:m)

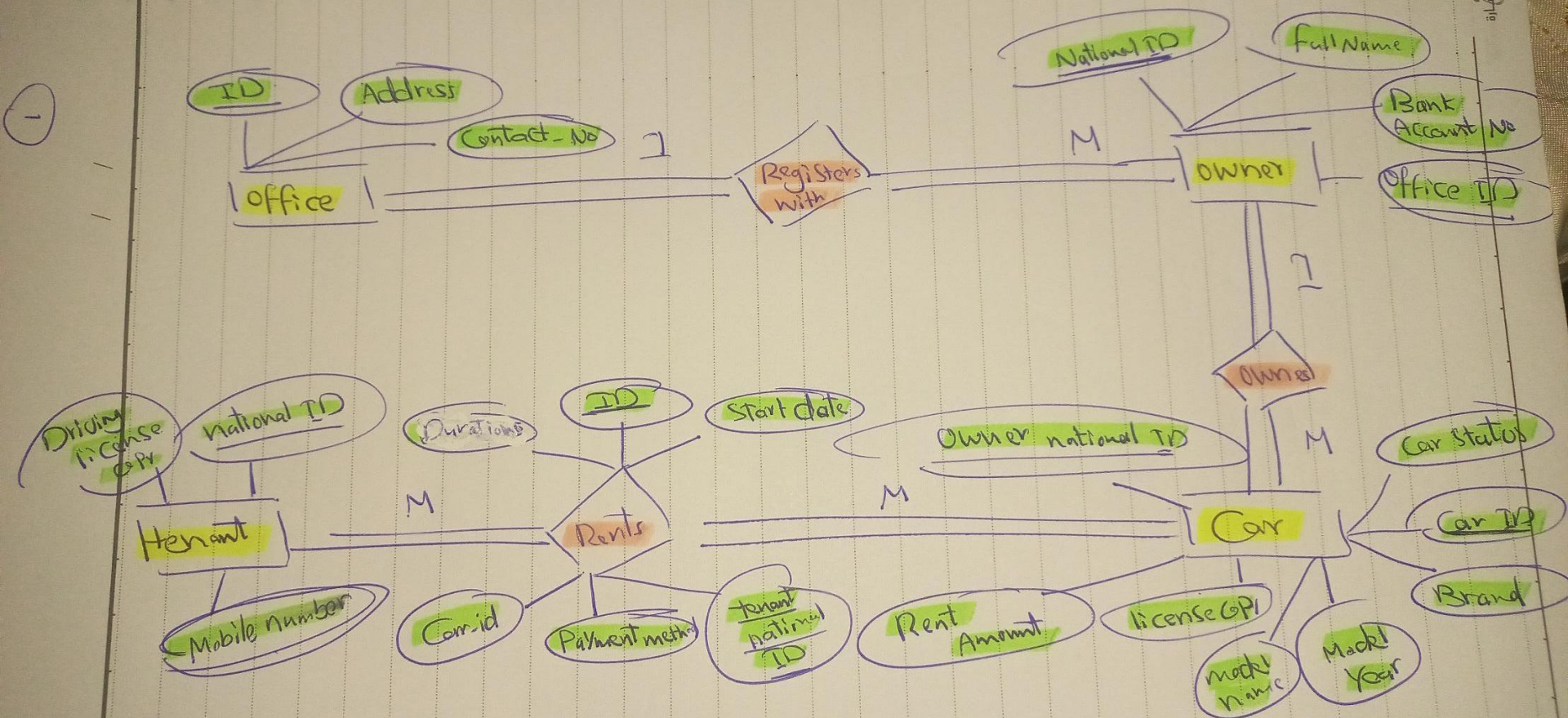
- one owner can provide one or more cars
  - one car belongs to exactly one owner
- Relationship: "owns"

[3] Tenant  $\leftrightarrow$  Car (M:M through Rental Transaction)

- one tenant can rent many cars.
  - one car can be rented by many tenants (at different times).
- Relationship: "Rents"



1



OFFICE	
PK	<u>Office_ID</u>
	Address
	Address
	Contact_Number

OWNER	
PK	<u>National_ID</u>
	Full_name
	Bank_Account_Number
FK	Office_ID

CAR	
PK	<u>Car_ID</u>
	Brand
	Model_Name
	Model_Year
	License_Copy
	Rent_Amount
	Car_Status
FK	Owner_National_ID

TENANT	
PK	<u>National_ID</u>
	Driving_License_Copy
	Mobile_Number

RENTAL_TRANSACTION	
PK	<u>Transaction_ID</u>
	Start_Date
	Duration
	Payment_Method
FK	Tenant_National_ID
FK	Car_ID

Register\_With

OWNS

Intended IN

MAKES